

THE Y-12 BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide And Carbon Corporation

Volume 4, No. 1

OAK RIDGE, TENNESSEE

Wednesday, January 4, 1950



THIS INTERESTING AND STRONGLY SYMBOLIC PICTURE ADORNS THE NEW 1950 Y-12 Safety Calendars showing a Y-12 employee carefully handling Little Master 1950 as Father Time 1949 bows out of the picture—with his prized 1949 safety record under his arm. Dickie Jenkins, two and one-half-year-old son of Bernard Jenkins, of Product Chemical, is Master 1950, who is being cared for by Perry Eakes, of Maintenance Automotive Equipment. Father Time is Frank Darby, of Electrical Maintenance. The picture is a Y-12 Photoposter made by the Photographic Section of the Engineering Division.

Dr. Keim Will Speak On Stable Isotope Use At Seminar Meet

Dr. C. P. Keim, of the Y-12 Isotope and Research Division, will be the principal speaker at the Oak Ridge Physics Seminar to be held in the West Lounge of the Ridge Recreation Hall at 4 o'clock Friday afternoon, January 6. Dr. Keim will discuss applications to which stable isotopes have been put and proposed possible applications in the future.

Part of the discussion will be based on more than 30 articles that appeared during 1949 in the magazine Physical Review, the official journal of the American Physical Society. These articles describe application of stable isotopes produced in Y-12.

650 Shipments From Y-12

In the four years that Y-12 has been producing stable isotopes more than 650 isotope shipments have been made to practically all of the research installations of the Atomic Energy Commission and more than 25 universities.

Dr. Keim received his academic training at Nebraska Wesleyan University, the University of Nebraska and the University of Pittsburgh, concentrating primarily on physics and chemistry. He did college teaching at York College, in Nebraska, the University of Nebraska, University of Tulsa and the University of Pittsburgh.

Experience Is Cited

His research and engineering experience includes positions with the Lincoln Telephone and Telegraph Co., Sylvania Electric Products Co., Mellon Institute of Industrial Research and Tennessee Eastman Corporation. He is a member of the American Chemical Society, American Association for the Advancement of Science, Sigma Xi, Pi Lambda Upsilon (Chemistry), and Sigma Pi Sigma (Physics).

Carbide Camera Club Will Install Officers; Hold Print Contest

Members of the Carbide Camera Club will install their new officers for 1950, launch plans for additional members and hold a black and white print contest at 7:30 o'clock next Tuesday night, January 10, in the East Portal building of Y-12.

New officers of the club, elected last month, are Nat Stetson, of Y-12, president; S. A. Hluchan, Oak Ridge National Laboratory, vice president; and Nelson Van Wie, K-25, secretary-treasurer.

Under the 1949 administration of Harry Bainbridge, also of Y-12, as president, the Carbide Camera Club expanded its membership to include a number of photographic enthusiasts of K-25 and ORNL, as well as in Y-12. The new officers of the club hope to even better this accomplishment. With the officers evenly distributed among the three Carbide units here it is expected that the goal can be easier attained.

In addition to discussing plans for a membership increase, a program for the entire year and appointment of committees by Stetson probably will be other items of business on the program next week.

The subject of the black and white print contest entries will be silhouettes. The deadline for entries is Friday, January 6. Entries may be left either at the Taylor's Photo Shop or the home of Stetson, 105 West Magnolia Lane.

Mrs. Dean Reed, wife of a Y-12 employee, will give a demonstration of how to color prints with oil paint and will exhibit some of the work she has done in this line.

The new officers of the club have urged all members of the group to attend the meeting next Tuesday and participate in discussions on the program for the year.

Electricians Continue 'All Present' Record

Dept. 2077, Electrical Maintenance, continued its latest perfect attendance streak into the third straight week for the period ending December 25, but was being closely pressed by the Guard Department for Major League leadership. The Guards had an absentee mark of only 4 per cent. In third place was Chemical Research with an absentee record of 1.3 per cent.

In addition to Electrical Maintenance, 11 departments in the Minor League also reported "all present" for the week ending December 25. Four out of five Minor

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Bikini Food Still Said Radioactive

Swimming in waters of Bikini lagoon, scene of atomic energy weapons experiments, now apparently is safe but food supply on the island bears traces of radioactivity, according to a joint report by the Atomic Energy Commission and the University of Washington Applied Fisheries Laboratory. The findings make it uncertain as to when Bikini natives, moved before the experiments, can return to the atoll.

'Let's Make This A Safe Year' Bid Is Made To All Y-12 Folks As 1949 Record Viewed Proudly

"He's in our hands—let's keep him safe."

That is the appeal made to all Y-12ers on the first photo-poster decorating the new 1950 safety calendar that has been distributed to all work areas and offices in the plant.

The appeal is made in behalf of Little Master 1950, who is pictured entering the plant on a warehouse lift truck in the arms of a careful employee. To carry out the New Year theme Father Time is shown making his exit—particularly protecting his 1949 safety record scroll.

Reminder Of Program

The rolls in this little picture-pageant intended as a visual reminder of the importance of the year-around safety program in the plant all were played by Y-12ers. Master 1950 is Dickie Jenkins, two and one-half-year old son of Bernard Jenkins, of Product Chemical. The careful employee driving the truck is Perry Eakes, Maintenance Automotive Equipment; and Father Time is Frank Darby, of Electrical Maintenance. Evan Means, another Electrical Maintenance employee who also is stage manager for the Oak Ridge Community Playhouse, aided in "making up" Darby for the part. The picture was made by the Y-12 Photographic Section and art work by the Engineering Division.

Can Be Proud Of Record

All Y-12 personnel can look back on the 1949 safety record with pride. For the past seven months there has not been a disabling injury in the plant that cost lost time, with its resultant disadvantages, to any employee. Naturally the efficiency of operations of the plant were improved as a direct result of the careful work of every individual employee.

The 1949 Y-12 safety record has brought praise and citations from both the National Safety Council and the Company and these accolades can be attributed to, as much as anything else, close adherence to the valuable tenet that "safety is everybody's business."

Don't Hurt Little Fellow

So to "make it a safe year" and to keep Master 1950 growing and growing in an atmosphere of safety so that no harm may befall him—let's everybody keep on making "safety everybody's business."

Majority Of Newspapers Support Strong Atomic Security Program

Although some newspapers in the country may profess to see danger to "rights of free speech," the vast majority of the major newspapers in the nation are 100 per cent behind the security program of the Atomic Energy Commission that extends to its various agencies and contractors to protect information on any possible uses of atomic energy for military purposes from falling into unauthorized hands.

In newspaper editorials and columns the AEC stand on secrecy concerning atomic weapons and proposals for a strong international control of such weapons is supported throughout the nation. Here are just a few excerpts from these statements:

Raymond Lawrence in the Oakland, Cal., Tribune—Lawrence disagrees with the contention of Dr. Harold Urey, of Chicago, that Russia will soon be ahead in atomic energy development because the United States is too concerned about military secrecy. He declares in a column that although there may not be any absolute secrets it would be stupid and artless for the United States to deliberately give away any information that other-

W-2 Tax Forms Out January 13; Aid Is Offered

Weekly salary and hourly roll employees will receive the W-2 Withholding Tax statements covering earnings and income tax deduction with pay checks to be delivered Friday, January 13. Y-12 employees on monthly salary will receive the statements by mail.

Regulations for filing income tax returns are unchanged from last year. Persons earning less than \$5,000 during 1949 should use the Form 1040-A, giving names of dependents, if any, and exemptions sought. The W-2 form must be attached to the 1040-A form and both forwarded to the Collector of Internal Revenue, Nashville, Tenn., where the tax due is computed. If earnings are more than \$5,000, the taxpayer will file the return on Form 1040, computing his own tax and also attaching the W-2 form showing earnings and taxes paid.

As was the case last year, Pat Hamrick, of the Employment Department, will be glad to assist any employees desiring aid in compiling tax returns. He may be reached at his office in Room 10, North Portal, from 8 a.m. to 4:30 p.m., Mondays through Fridays.

It is stressed that this service is necessarily limited to advice on more simple tax problems and that matters involving technical or legal questions should be submitted to income tax authorities for a decision.

It also is pointed out that the Company cannot be responsible for the advice on any tax matters that might prove controversial.

wise might be exclusive at present. The Schenectady Gazette—Editorially this New York state paper maintains that the United States (Continued On Page 2)

SAFETY SCOREBOARD

Your Plant Has
Operated
194 DAYS
Without A Lost Time
Accident
THROUGH JAN. 1

Y-12 Bulletin

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Electricians Continue 'All Present' Record

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League groups with perfect marks for the previous week repeated.

The repeaters were Maintenance Utilities, Cafeteria and Canteens, Receiving and Shipping and Superintendents. Joining these departments in a tie for top position were the Fire Department, Planning and Estimating, Employee Relations, Laundry, Janitors, Transportation and Plant Engineering.

The Chemical Department retained second place with an absentee mark of .5 per cent and Property advanced from fifth to third place with 1.2 per cent of its personnel absent.

Despite the increase in number of departments with perfect attendance marks, the plant absentee mark for the week ending December 25 increased .1 per cent from the preceding week to an even two per cent.

The record, by departments, follows:

MAJOR LEAGUE			
More than 50 Employees Scheduled			
Dept.	Absent	Percentage	Standing
2077	0.0	12-25-49	12-18-49
2091	0.4	1	1
2300	1.3	2	2
2015	1.5	3	3
2003	1.6	4	4
2616	1.8	5	5
2142	2.3	6	6
2282	2.6	7	7
2320	3.0	8	8
2283	3.6	9	9
2014	4.19	10	10
2360	4.20	11	11
		12	12

Group absentee percentage was 2.2 per cent, .4 per cent higher than the preceding week.

MINOR LEAGUE			
15-49 Employees Scheduled			
Dept.	Absent	Percentage	Standing
2005	0.0	12-25-49	12-18-49
2107	0.0	1	1
2143	0.0	1	1
2200	0.0	1	1
2093	0.0	1	1
2002	0.0	1	1
2109	0.0	1	1
2096	0.0	1	1
2001	0.0	1	1
2008	0.0	1	1
2060	0.0	1	1
2619	0.5	2	2
2140	1.20	3	3
2743	1.23	4	4
2270	2.2	5	5
2090	6.66	6	6
2009	6.66	6	6
2739	6.7	7	7
2133	8.5	8	8

Group absentee percentage was 1.8 per cent, .5 per cent lower than the preceding week.

The plant average for the week ending December 25 was 2.0 per cent, .1 per cent higher than the preceding week.

Accommodating Navy Duty Officer Found

The Navy is most accommodating, according to a recent news story from Washington.

A reporter called the Navy after working hours and wanted the home telephone number of an aide to an admiral.

The Navy duty officer said the number was in the telephone book and cited the page, gave the aide's correct name and initials. Orders prevented him, he said, from giving out the number itself.

EASY FOR VAULTERS

For pole vaulters who find that the falls are not bad—its the landings that hurt—a track coach has invented a landing device. With this new invention the vaulters land in a net and counterweights lower them gently to the ground, says the National Patent Council.

This is the season when even small boys suffer from class hatred.



Well, how many times have you written it "1949?" Also, how many of those fine New Year resolutions are intact?

If you see a happy couple—swish—roll by in a cherry-red—whoosh—convertible it is Daisy Ward, of the Analytical Laboratory in Y-12 and her husband—swish—whoosh—they just made a U-turn. The Wards obtained the vehicle as an unexpected Christmas present in a drawing held by the Veterans of Foreign Wars. They got their car right after Christmas, which they spent in Middlesboro, Ky.

Penny Keene, of Medical; and her husband, Oliver Keene, of Property, propelled their pretty blue Pontiac down to Tuscaloosa, Ala., for the New Year holidays. Leitha Daniels and her husband flew over to Memphis to see 1950 arrive. Dr. Ann Robinson spent a very satisfactory holiday season at home entertaining her two sons and two daughters in a real family reunion. Virginia Smith also had relatives as holiday guests, entertaining one sister, Paula, from Kansas City; and another, Edith, of Kingsport.

The Analytical Laboratory has a list of sick folks to whom they extend get well wishes. They include Helen Hicks, Bill Schultz and Roger Hibbs. Belle Thompson has recovered from a sudden illness. Walter Rice and family listened to New Year bells at Gadsden, Ala.

Numerous and sundry places in Dixie received visits from Analytical Laboratory folks during the holidays. Lenora Brushwood went to Savannah, Ga. Earlene Banic and husband, George, of Isotope Research and Production, traveled to Travelers Rest, S. C. Alice and Ross Jamison spent the holidays in Monroe, La., and Little Rock, Ark. Thelma Cole visited in Spartanburg, S. C. Elizabeth Patrick took in Scottsboro, Ala., and Ruth Jones went to New Market in the same state. Meridian, Miss., drew Catherine Love and her husband, Leon Love, of Isotope Research and Production. Catherine Carroll found Forest City, N. C., attractive. Inez Thomas and her husband went the other way for Christmas, to Princeton, W. Va. Martha May and Elva Combs spent a two-week vacation recently in Knoxville. Helen Saylor and her husband went up to Johnson City for the Yule season.

Mat Wisnowski, of Plant Engineering, reminds Y-12 members of the Oak Ridge Folk Dancing Group, of which he is leader, that it will resume sessions Thursday night following a holiday rest. The group will meet at the Cedar Hill School gymnasium.

Chemical Research reports John Redman went to Indiana for the holidays. Dr. C. J. Barton stayed in Oak Ridge for a week's vacation. Cynthia, Ky., was Nancy Doane's choice for the holidays and Virginia Spivey went home to North Carolina. David Crouse was in Pennsylvania for Christmas and Charles Coleman went home with Warren Grimes to Crawfordville, Ind. F. L. Daley vacationed in Atlanta, Ga., last week.

P. C. Dabbs, of the Guard Department, had as holiday guests his daughter, Mrs. Robert Hentz, her husband and children from South Bend, Ind. L. E. Bellamy and Mrs. Bellamy spent Xmas in Gate City, Va.

Research Engineering reports Idana Devinish and her husband, Bob, a former Y-12er, went to Cincinnati to visit his folks during the holidays.

Evan Means, the big sportsman down in Electrical Maintenance, got a Shakespeare fibre glass Wonder rod and deluxe Wonder reel and dares fish to come messing around his locale. O. D. Liechty vacationed last week. A. L. Franklin started his vacation New Year Day. Sue Holiday is in Nashville and Huntington, Tenn., on vacation this week.

George Oliphant, of Plant Engineering, (the lucky guy) planned to attend the Orange Bowl game in Miami.

Field Maintenance sends get well wishes to Charlie Green and W. C. Laughlin, who are ailing.

The Chemical Department is congratulating A. C. Lee over the birth of a son to Mrs. Lee on the day after Christmas.

Mozelle Rankin, of Electromagnetic Research Laboratory, spent a week of vacation out in Fort Worth, Tex. John Murphy went in the other direction to Philadelphia, Pa. Other vacationers include Lovelle Thompson in Camden, Tenn., and Virgil Haynes visiting in-laws in West Tennessee. Mae Hale spent Xmas with her folks in Bean Station, Tenn.

Graydon Whitman, of Isotope Research and Production, believes he is jinxed. He was stricken with influenza right during the holidays. Velma Rogers is welcomed into the department. Fred Kappellmann flew to his home in Lynbrook, L. I., N. Y., for the holidays. Edith Zarzecki and her husband, Joe, and Joe Walton were guests of the Paul Dunns for Yule dinner. Oliver Yonts and family journeyed down to Ocala, Fla., to visit his mother-in-law over Christmas. Harris Dunn visited his grandfather in Franklin, Ky., over the holidays. Al Southern, his wife and their son spent Xmas with his parents at Cherokee Lake. Henry Morgan is back after being ill.

Stores Department reports Hazel Tompkins still on the sick list. Y-12 Cashier T. A. Williams is at home in Kingsport recuperating from his recent operation. Mary Emma Puckett is another Y-12er unlucky enough to become sick during the holidays, falling ill at her home in Shelbyville, Ky. C. M. Miller and D. E. Ferguson were vacationing last week. Lucia Padgett and her son visited her mother in South Carolina. Jackie Tankersley was in Chattanooga for Christmas. Another ill Y-12er is J. D. Hayes, who is in the Oak Ridge Hospital. The department sends get well wishes to all the ailing.

L. V. Thornton, of Property, went to Kingston and J. M. McMaster to Jackson on vacations last week.

Dean Reed, of Health Physics, spent a recent vacation in Oak Ridge. So did Jean Oliver.

Uranium Control and Computing reports Kay Guthrie has had her sister, from Graham, N. C., as a recent guest. Dorothy Carney watched the Old Year out at Cincinnati. Kate Penland entertained her brother, Edward, from Scaly, N. C., last week.

Product Chemical folks scattered over a wide territory during the holidays, such as K. F. Duke to Blountsville, Ala. J. M. Patterson to Bear Paw, N. C. Tom Gregg to Kingsport. R. A. Wilson to Jacksonville, Fla. C. T. Harris, New York City. F. E. Shearl, Bristol, Va. E. F. Sise, Knoxville. E. V. Hawk, Nashville. Joe Gossage to LaFollette. John Cooley, McMinnville. E. B. Richardson, Middlesboro, Ky. E. C. Reeves, Poggio, Tenn. H. C. Orange to Knoxville. Zola Marlar, Burnsville, Miss. George Miller, Chattanooga. Garnette Adams, Union City. Naomi Wainwright to Frankfort, Ind. Nina Lowry to Ewing, Ill. John Dinsmore and Mrs. Dinsmore had as a Christmas guest Miss Sarah Dinsmore, of New Castle, Pa. Willie Green is vacationing in Fort Worth, Tex. M. H. Clayton is doing like wise in Miami.

RADAR MEASURES ATOMS

The Schneckady (N. Y.) Gazette recently reported that Dr. A. H. Sharbaugh, of the General Electric research laboratory, has described use of radar in atomic research. He is quoted as saying that distances between atoms can be measured by radar to accuracy of one-hundredth of a millionth of an inch.

Union Carbide Elects Director And Secretary



Dial
Morse G. Dial has been elected a Director, and Kenneth H. Hannan elected Secretary of Union Carbide and Carbon Corporation, it has been announced by F. H. Haggerson, President.

Mr. Dial, a graduate of Cornell University, joined the Corporation in 1929, as a member of the sales staff of Carbide and Carbon Chemicals Division of Union Carbide. He was successively Sales Manager and General Manager of the Pyrofax Division of that Company. In 1937 Mr. Dial became Assistant Secretary and Treasurer, in 1945 he was elected Secretary and Treasurer, and since August 1949 he has been a Vice President of Union Carbide and Carbon Corporation.

Mr. Hannan succeeds Mr. Dial as Secretary. A graduate of Yale Law School, he joined the legal staff of the Corporation in 1936. He served in the U. S. Navy from 1941 through 1945, rising from the rank of Ensign to Lt. Commander. Returning to the Finance Department of Union Carbide in 1946, Mr. Hannan has been Assistant Secretary and Treasurer of the Corporation, and Treasurer of the Electro Metallurgical Division, since 1948.

Majority Of Papers Back Security Program

(Continued From Page 1)

cannot afford to tell other nations all we know about making superior atomic bombs and the fact that Russia may have the bomb does not alter the situation materially as regarding security regulations for the United States.

The Baltimore Sun—Regarding international control of atomic energy this strong Baltimore publication says editorially that Vishinsky's boastful claim that Russia is using atomic energy for peaceful purposes clinches the United States argument for establishing strong control before agreeing to abolish the atomic bomb.

The New York Herald-Tribune—This big metropolitan New York daily quotes Bernard Baruch as having confidence in President Truman and United Nations Delegate Warren Austin in regards to their actions in regards to control of atomic bombs and protection of the nation. The paper also quotes Baruch as approving the five-power statement issued in support of the American plan for atomic energy control.

The Denver Post—This strong western newspaper declares that the United States must continue to insist on a method of enforceable control in any agreement concerning the atomic bomb and until such an agreement is reached the nation must continue to make bigger and better atomic bombs and continue to keep secret the "Know How" in connection with such action.

Jack Tarver, in the Atlanta Constitution—He sees as the pertinent question not who has the atomic bomb first but who will use it last.

The importance placed on security by these newspapers reflects the strong feelings of every American that the military secrets of atomic energy as developed by the AEC should be firmly kept. Here in Y-12 everyone should know the security regulations of their own particular jobs and how the plant security program operates to safeguard Restricted Data for the protection of the nation itself.



Y-12ers recently in the Oak Ridge Hospital were Marie M. Cardwell, Plant Records; Everett Smith, Buildings and Grounds; Daisy Whitehead, Medical; Anna P. Smith, Analytical Laboratory; and J. D. Hays, Stores.



Only one birth was reported to Y-12 parents at the Oak Ridge Hospital last week. Mr. and Mrs. George Leichsenring became parents of a girl December 28.

Ridge Safety Lane Now Open; Hours Are Stated

Attention of Y-12 employees who own their own automobiles is called to the fact that the Oak Ridge Safety Lane now is open for the semi-annual inspection period. The lane is located on East Division Road and will be open daily except Sundays and Mondays from 9:15 a.m. to 1:15 p.m. and from 2 p.m. to 6 p.m. until March 25.

All motor vehicles operated in Oak Ridge more than one day per week must bear the new black on silver stickers signifying the automobile is in safe condition. Cars bearing valid stickers from other safety lanes are not required to have Oak Ridge stickers.

The most modern equipment is used in the safety lane to check any defects in brakes, steering parts, wheel alignment, lights, horn, windshield wiper or other parts on a vehicle that, if faulty, might cause an accident.

Last Act Of Mozart's Opera To Be Presented Thursday

The second act of Mozart's opera, Don Giovanni, will be presented to the Oak Ridge Music Listening Group at 8 o'clock Thursday night, January 5, in the East Lounge of the Ridge Recreation Hall. This performance will conclude the two-installment presentation of the opera.

Among the arias to be heard in this final act are the serenade by Don Juan to Zerlina, Zerlina's consoling love-song to Masetto, the well-known Il Mio Tesoro by Ottavio, and others.

John Brownlee as Don Giovanni, Salvatore Baccaloni as Leporello, David Franklin as the statue who condemns Don Giovanni to eternal punishment, Ina Souez as Donna Anna, Luise Helletsgruber as Donna Elvira, Audrey Mildmay as Zerlina and Koloman van Pataky as Don Ottavio comprise the cast. The performance is directed by Fritz Busch and given by the Glydebourne festival orchestra.

Y-12 Badminton Team Defeats K-25

The Y-12 badminton team, headed by Mal Wallis, turned on the heat again last Thursday night at the Jefferson High School gymnasium by walloping the K-25 outfit by the score of 10 to 1.

Leak Detector Detected As Leak

When a leak detector becomes a leak has been ascertained by police of Lawrenceburg, Ill., according to a recent news dispatch. Officers reported Leakfinder Edgar L. Dell, 29, employee of Schenley Distilleries, had been smuggling ley Distilleries, had been smuggling vacuum bottle.



6-1061

Y-12 Photos By Vince Moore

WHAT SOME OF THESE BOWLING TEAMS WON'T DO to get their pictures in the paper. Here are the Tigers and Comets, of the B League, with the Tigers giving their opponents a tail-twisting instead of the other way around, as the results of that certain meeting of the teams showed. The Tigers, from left, are Ira Shotts, George Graham, Woody Palmer, R. R. Tippy and Charlie Gillihan. The Comets, from left, are Rudy Pletz, Jack McLendon, Warren Grimes, John Reece and Bill Prater.

Orphans Win First Half Title In C League

The Orphans only had to split even with the Hooks last Wednesday night to hold first place and win first half honors in the C League. However, the feature of the last stages of the race was the escape from the cellar of the Short Circuits, who landed in sixth place as a result of taking three points from the Thin Pins, who finally landed in the basement. The Guards clinched second place by trimming the Hurricanes for four points and the Hornets stung the Moles for three.

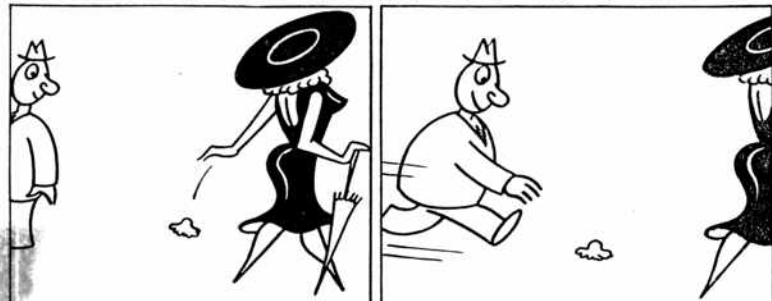
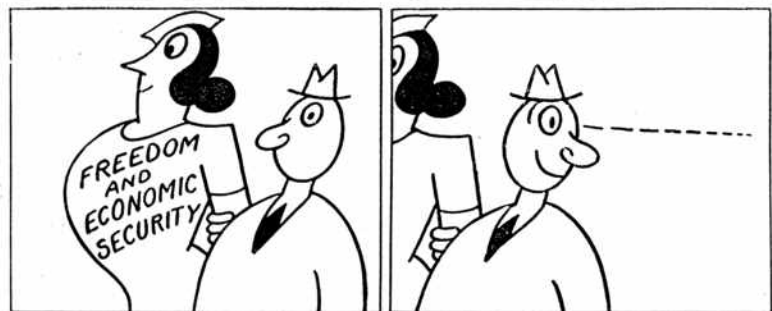
Dr. C. P. Keim topped the scratch single and series scores with a 210 and 502 for the Hornets. A teammate, Duckworth, tied with Arms, of the Hooks, for handicap series with 599 and Moody, of the Hooks, had the best handicap single game of 249.

The Orphans took scratch single and handicap series honors with 779 and 2,843. The Hornets posted a 2,271 scratch series and the Moles a 977 handicap single game.

League standing follows:

Team	W	L	Team	W	L
Orphans	39	17	Hornets	27	29
Guards	35	21	Short Circuits	21	35
Hooks	33	23	Moles	20	36
Hurricanes	30	26	Thin Pins	19	37

"Who was that lady I saw you out with last night?"
"I wasn't out. I was just dozing."



Dunlap Is Top Scorer In Maintenance Victory

Dunlap, of the Maintenance keglers in the B League, took all individual honors in scoring last Thursday night as his team took three from the Cubs. The Bumpers walloped the Bums for three to hold the loop lead and the Comets and Wolves were tied for second place as the Comets topped One-91 for three and the Wolves ripped the Rippers for four. In other clashes the Tigers emerged from the cellar by winning three from the Head Pins and the All Stars kicked the Mules for three.

Dunlap rolled a 598 scratch series and 694 handicap series, high score for the second round of play. He got a fine 223 scratch single game and boosted it to 255 with handicap.

Maintenance and Wolves shared team scoring honors. The former team had the best scratch scores with an 830 single and 1,018 handicap. The Wolves had a 2,498 scratch series and increased it to 2,924 with handicap.

League standing follows:

Team	W	L	Team	W	L
Bumpers	15	5	Head Pins	10	10
Comets	13	7	Maintenance	8	12
Wolves	13	7	Rippers	7	13
Cubs	12	8	Bums	7	13
Mules	12	8	Tigers	6	14
All Stars	12	8	One-91	5	15

A problem is just an opportunity in work clothes.

Fairchild And ORNL Next Court Opponents Of Cardinals, Robins

After playing a double-header with Clinton Tuesday night of this week the Y-12 varsity basketball team will be quite busy the rest of this week and the first part of next. At 9:15 o'clock tonight, Wednesday, January 4, the Cards meet the Fairchild five at the Oak Ridge High School gymnasium while tomorrow night at 7:15 o'clock the Robins take on the ORNL lassies on the same battleground.

Play K-25 In Two Tuesday

After a men's game between the Y-12ers and Lutts Motors at 6:45 o'clock next Monday night at the Jefferson Junior High School both Y-12 teams will be primed for a double-header against their old rivals from K-25 the following night, Tuesday, January 10, at Jefferson. The women's game will start at 7:15 o'clock and will be followed immediately by the men's clash at 8:30 o'clock. The first half of the season in the Oak Ridge City League schedule will be brought to a close as far as Y-12 is concerned when the Robins meet the defending championship team from Roane-Anderson at 7:15 o'clock Friday night, January 13.

Robins Trim Bluebirds

Last Thursday night the Y-12 Robins trimmed the K-25 Bluebirds in a close scrap by the score of 22 to 18, coming from behind to win. Judy Butler led the Y-12 scoring with seven points and Shirley Brown got six, all free throws. She had seven chances. K-25 had an 11-10 lead at half-time, but the Robins came back to lead at 16-14 at the third quarter and increased their margin to gain the victory.

In their last two clashes the Cardinals split even in a pair of well played games. The red and white gained revenge for an earlier defeat when they took the Southern Bell quintet for a 35 to 33 decision December 27. Bill Oliver led the Cards in scoring with 16 points, followed by George Oliphant with seven and Miller with six. The game was close as hamburgers and onions all the way, being tied at nine-all at the first quarter, Southern Bell holding a 19 to 18 lead at half time and Y-12 coming back to hold a 28 to 26 advantage at the three-quarter mark. Play in the last quarter again was even as close defensive work held the scoring to seven points each.

Undermanned Team Is Trimmed

However, on the following night Coach Frank Darby could round up only five players because of vacations and holiday visits and the Cardinals were beaten by ORNL to the tune of 37 to 32. This was another close one with Y-12 rallying in the final period to cut a 10-point deficit in half. The Cardinal scoring was almost evenly split with Hooper getting nine, Oliphant and Miller eight each and Robertson seven.

AEP Winter Term Registration Will Be Open Until January 13

The winter term of the Adult Education Program of Oak Ridge now is underway with registrations being accepted until Friday, January 13. Classes will begin today and tomorrow, January 4 and 5, at the high school.

Any Y-12ers interested in the university credit or the certificate courses offered by the Adult Education Program may obtain information at the Y-12 Training Department, Bldg. 9704-2, telephone 7716. The information also may be obtained at the Adult Education Program office at the high school, telephone 5-2889.

In an Oregon town the pupils were told "there would be no school tomorrow because of teacher's institute."

One little boy told his parents excitedly, "No school tomorrow. The teachers are going on an innocent too."

Blue Jays Seek Victory Over Barber; Birds Play ORNL Quintet Tonight

The Y-12 entries in the Oak Ridge Recreation Basketball League have shown that they must be reckoned with in the early stages of the loop race. After clashes of last Thursday night the Blue Jays had won two and lost one and the Speckled Birds had captured one contest and lost two. Barber Buick was leading the loop with a three won and none lost mark, the Jays were tied with AEC and the Birds were knotted with the ORNL Chemists and ORNL Instrument quintets.

The Blue Jays will endeavor to knock over the Barber Buick five in one of the three loop games scheduled for Thursday night. This tilt will start at 8 o'clock. The Speckled Birds are scheduled for a scrap with the ORNL Instrument five one hour later. The ORNL Chemists and AEC open the card at 7 o'clock.

The Blue Jays were the most consistent scorers in the league in their first three games, tallying 28 points in each. They scored victories over the Speckled Birds, who could get only 21, and the Instruments, who posted 24. However, the Chemists managed to score 31 for a victory. The Birds handed AEC a 29-28 licking and lost to Barber by 46-32.

Termites Chew Path To Top Of D Loop

The Termites chewed their way to the top of the ladder in the D League of plant pinmen last week by gnawing out four points from the Splinters. The loss dropped the Splinters, which the previous week had turned in a four-point victory of their own, from third place back to fifth. The Strikers, holders of first place for some time, were ousted by the Materializers with a three-point win. The Angstroms rallied to split even with the Old Men and the Overheads copped three from the Isotopes.

Termites Hog Team Honors

The Termites hogged all team honors as they splintered the Splinters. They rolled an 867 scratch single game, 2,514 scratch series, 999 handicap single and 2,910 handicap series. Then Frank Gragg came through with a 555 scratch series and tied with Nelson Tibbatts, of the Overheads, with the best handicap series of 606 for the night. Ernie Cobble posted a 499 scratch series and Bill Tunnell's 603 handicap series, Wes Savage's scratch 202 game and 583 handicap series and Sky Barker's 565 series helped the victors along. Harold Duncan's 483 scratch series was high for the Splinters with Harold Ratjen getting a 590 handicap series and John Reece 580.

The Materializers came back strong after the Strikers had taken the first game by a close margin. The victors came back with 987 in the second game to win by nearly 100 pins and rolled up a similar margin in the third tilt. For the Materializers Fred Boody, Jim Keeton, Paul Hagelston, Carl Frazier and Frank Knox all rolled well, while the Strikers' were led by Paul Petretzky, Bill Burns and Bill Prater.

Nelson Tibbatts and Leonard Crawford led the Overheads to their triumph. Crawford tossed six strikes in succession and wound up with a 216 scratch single game for tops of the night which rose to 272 with handicap, the highest of the second period of play. Paul Dunn, Bob Love and Paul Wilkinson posted best scores for the Isotopes.

After several previous bad breaks the Angstroms put up a sharp battle against the Old Men. Elkin Burkhart won the first game for the Angstroms with some delayed action bowling by the margin of five pins. Paul Griffin chipped in to lead the attack and was aided by N. V. Smith, Al Southern and Ed Spitzer. George Nessle led the Old Men with a 451 scratch series and was given good support by Keith Brown and Lyle Overholser.

League standing follows:

Team	W	L	Team	W	L
Termites	17	7	Splinters	12	12
Strikers	15	9	Old Men	10	14
Materializers	14	10	Isotopes	10	14
Overheads	13	11	Angstroms	5	14

Kemps Climb For Top Spot Tie In League

The Controllers and the Kemps emerged from last Wednesday night's bowling in the W League in a dead heat for first place in the women's keglers loop. The Kemps walloped the Splinters for three points while the Controllers could take but two from the Pick Ups. Meanwhile, the Rattlers struck with fury to dump the Dodgers for three points, pulling the losers from their previously-held tie for top spot. In the other league game the Woes captured two points from the Hi Balls.

Mozelle Kennedy, of the Kemps, paced her team to victory with most of the individual scoring honors. She tied for the best single scratch game with Calfee, of the Dodgers, each of the lassies posting a 179 game. She topped the list with a 229 handicap single game and 601 handicap series. Katie Williams, bowling for the Controllers, led with a 449 scratch series score.

The Kemps rolled out in front with a 667 scratch single game and 1,933 scratch series. The Rattlers had the best handicap series scores with a 958 single and 2,742 game.

League standing follows:

Team	W	L	Team	W	L
Controllers	29	13	Pick Ups	18	24
Kemps	29	13	Woes	17	25
Dodgers	27	15	Hi Balls	15	27
Rattlers	20	22	Spinners	13	29

Women's Varsity Bowling Team Loses Three Games

The Y-12 women's varsity bowl team had a rough night on the alleys last Thursday night and dropped three games to the Knox Blueprint keglers. The losers scored games of 657, 635, 625—1,917 to 738, 644, 666 for the victors. The Y-12 lassies are in 10th place in the 12-club loop.

Olyne Poindexter led the Y-12 scorers with 136, 167, 142—445. Then in order came Katie Williams 124, 138, 122—394; Lucille Townsend 121, 95, 152—368; Ruth Law 111, 137, 116—364; and Katherine Hoskins 133, 98, 93—324.

Professor: "If molecules can be split into atoms and atoms can be broken up into electrons, can electrons be split any farther?"

Student: "Well, you might try mailing some in a package marked 'Fragile'."

**CARBIDE AND CARBON
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Additions To Y-12 Technical Library

MATHEMATICS
TENSOR CALCULUS. J. L. Synge. Toronto, University of Toronto Press, 1949. QA 433; S 993.

THE THEORY OF PROBABILITY, AN INQUIRY INTO THE LOGICAL AND MATHEMATICAL FOUNDATIONS OF THE CALCULUS OF PROBABILITY. Hans Reichenbach. Berkeley, University of California Press, 1949. QA 3; R 351.

PHYSICS
A MANUAL OF VACUUM PRACTICE L. H. Martin and R. D. Hill. Australia, University of Melbourne Press, 1947. QC 166; M 382.

THE QUANTUM THEORY OF RADIATION. W. Heitler. Second edition, Oxford University Press, 1944. QC 721; H 473.

THE THEORY OF ELECTRONS AND ITS APPLICATIONS TO THE PHENOMENA OF LIGHT AND RADIANT HEAT. H. A. Lorentz, N. Y., Stechert, 1909. QC 721; L 869.

CHEMISTRY
THE CHEMISTRY OF RUTHENIUM. D. D. Deford. University of Kansas, 1948. QD 181.R9 D 315.

MODERN INSTRUMENTAL ANALYSIS. D. F. Boltz. Vol. 1, Ann Arbor, Edwards Brothers, 1949. QD 98; B 694.

MOLECULES AND CRYSTALS IN INORGANIC CHEMISTRY. A. E. Van Arkel. N. Y., Interscience, 1949. QD 561; V 217.

X-RAY OPTICS: THE DIFFRACTION OF X-RAYS BY FINITE AND IMPERFECT CRYSTALS. A. J. C. Wilson. London, Methuen and Co., 1949. QD 945; W 747.

MEDICINE
THE CIBA COLLECTION OF MEDICAL ILLUSTRATIONS: A COMPILATION OF PATHOLOGICAL AND ANATOMICAL PAINTINGS. F. H. Netter. Summit, New Jersey, Ciba Pharmaceutical Products, Inc., 1948. RB 33; N 474.

TECHNOLOGY
CHEMICAL MATERIALS CATALOG: THE PROCESS INDUSTRIES' OWN CATALOG OF CHEMICALS AND MATERIALS. N. Y., Reinhold, 1949. TP 9; C 517 Reference.

CHEMICAL ENGINEERING CATALOG. 1948-49., N. Y., Reinhold, 1948. TP 9; C 517 Reference.

ESSENTIAL METALLURGY FOR ENGINEERS: THE CAUSES AND CONTROL OF METALLIC PROPERTIES. C. A. Vivian. London. Pitman, 1948. TN 665; V 858.

KODACHROME AND EKTACHROME FOR ALL ANGLES. Fred Bond. Third Edition, San Francisco, Camera Craft Publ., Co., 1949. TR 510; B 711.

MODERN PACKAGING ENCYCLOPEDIA. N. Y., Packaging Catalog Corp., 1940. TS 2301.C8 M 691 Reference.

WEBSTER'S NEW COLLEGIATE DICTIONARY. G. and C. Merriam Co., 1949. PE 1625; W 382. Reference.

RAND-MCNALLY COSMOPOLITAN WORLD ATLAS. Chicago, Rand McNally and Co., 1949. G; R 186. Reference.

INTERNATIONAL WORLD WHO'S WHO. N. Y., Sampson Publ. Co., 1949. Z 5319; I 61 Reference.

REFERENCE
AMERICAN BOOKTRADE DIRECTORY. Including lists of publishers, booksellers and private book collectors. N. Y., Bowker, Z 475; A 512. Reference.

BOOKMAN'S MANUAL, A GUIDE TO LITERATURE. Bessie Graham, Sixth Edition revised and

enlarged by Hester R. Hoffman, N. Y., R. R. Bowler, Co., 1948. Z 1035; G 739. Reference.

LIBRARY SCIENCE
TECHNOLOGISCHES WORTERBUCH, GEWERBE, INDUSTRIE, TECHNIK UND IHRE WISSENSCHAFTLICHEN GRUNDLAGEN, BERG-UND HUTTENWESEN. N. Y., Fred Ungar Publ. Co., 1944. T 10; T 255 Reference.

Careless Handling Of Solvents Dangerous

Solvents can do an efficient job of cleaning dirt and grease from a machine part or tool, but they should always be handled with care. Solvent liquids can cause skin irritation, and vapors from such liquids can cause nausea and sickness. Also when a solvent liquid is flammable a spark from a welding torch or even a lighted cigarette can cause an explosion and fire.

Care Urged In Handling

When handling solvents, wherever possible, a safety can or other tightly closing container should be used. If enough vapor gets into the air from a solvent it can cause headache, dizziness or more serious illness. If the solvent can burn, the vapors may drift over to a source of sparks such as from electrical equipment or to a gas flame and a flash back may result that will set off a dangerous blaze.

Containers of solvent liquids should never be left around carelessly. Someone may knock over a container accidentally with a ladder, dolly or other object.

Dispose Of Soaked Rags

Dirty, solvent-soaked rags or cotton waste should be thrown into covered waste cans so that the vapors cannot get into the air. If a container of solvent is accidentally tipped over or some of its contents spilled the spillage should be wiped up at once and the cloth used immediately be placed in a waste can.

If any employee spills a solvent on himself, he should immediately change into clean and dry clothing. The solvent-saturated garments should be thoroughly dried before they are worn again. They should be dried where the vapor will not affect others. As long as any odor remains, the clothing is not sufficiently dry.

Report Large Spills

If a large solvent spill should occur as the result of a leak or other cause, foremen or supervisors should be immediately notified so that proper safety precautions can be taken.

Solvents should never be used to remove paint or oil from the skin. It removes the natural protective skin oils, irritates the surface of the skin and invites infection.

The same care exhibited in handling solvents in the plant should extend to homes where they are used.

CIVIL DEFENSE STARTED

The Minneapolis Tribune has reported that organization of an American civil defense against any new atomic dangers already is underway. The paper says that the start was made on a state and local basis with no military "hoo-rah" or big central office in Washington.

Indigestion: The failure to adjust a square meal to a round stomach.

Headline Highlights During 1949

Y-12 AGAIN FIRST FOR RED CROSS

'Recreation For All' Summer Program Being Planned For Y-12
Will Include Baseball, Softball, Tennis, Golf And Horseshoes:
Bill Burns Selected Manager Of Cardinal Diamond Team For Season

114 Per Cent
Of Goal Raised
By Employees

Y-12 Employees To Get Individual
Awards For Compiling Fine Safety
Record Without Lost Time Accident

Leo Hemphill Of Y-12 Is Selected
'Young Man Of The Year' In City
For Civic Work During Past Year

11 More Buildings
In Y-12 Served
By Sprinklers

SPECTROSCOPY MEET SET FOR Y-12

Week Of Physics Laboratory
In Y-12 Told In Articles

Two-Day Session
Of Symposium
Is Scheduled

32 Y-12ers Are Students,
One Teacher In U-T Classes

Several Y-12 Employees, Sons
Are Active In Civil Air Patrol

CLEANUP WEEK OPENS IN PLANT

'Make Y-12 Shine During 1949'
Slogan Of Drive To Eliminate
Fire, Safety Hazards In Plant

Letters Of Congratulation Received On Safety Mark

Y-12 Is Praised
For Fine Plant
Safety Record

Savings Plan Check Distribution Set For Friday, July 1, In Y-12;
Many Activities Being Planned For Long Week-End July 4 Holiday

Dr. C. P. Keim Named As Member Of Oak Ridge
Community Chest Board Of Directors For 1949

Y-12 Now 'Cleanest In History'
After Cleanup Week Campaign

Participating Scientists Praise
Spectroscopy Symposium In Y-12

Several Y-12ers
On ASC Regional
Meeting Program

Trout And Bass
Catches Make
Y-12ers Happy

Bowlers Of Y-12
Do Right Well
In State Meet

David Samuel
Wins Second
Limerick Prize

New Y-12 Badges
Being Issued
By Supervision

40 Isotope
Shipments Made
From Dept. H12L

Isotope Program
Of Y-12 Praised
By Dr. Bacher

Y-12ers To Offer
Three Papers
At Symposium

Group Insurance
Pays Out \$79,802
In 1948 Benefits

Y-12ers To Sing
In Ridge Chorus
On Saturday

Y-12's Calculator
One Of Meeting's
Feature Exhibits



Y-12 Again Pushes 'Over The Top' For Community Chest;
Cooperation Of All Employees In Campaign Is Praised

Y-12 To Be Host
At Information
Meet Next Week

Y-12ers Get Wallets;
Check To Put In Them

Year-Around Y-12 Fire Prevention
Program Will Be Reviewed During
National Observance October 9-15

AEC Clearance Cards
Distributed In Y-12

Wife Of Y-12 Employee Given Feature Role
In Playhouse Show 'The Glass Menagerie'

Six Y-12 Boat Enthusiasts
Take Navigation Examination

All Three Carbide Facilities In Oak Ridge
'Over The Top' In Community Chest Drive

Fire Prevention Week Success:
Chief Hughey Praises Results

Via Bradford, Ex-Tide Star Now Navy Coach
And Brother Visit Child 'Under Miles' Here

Youngsters Of Y-12 Parents Are Champs
Of Alleys; Ridge Girls Take U. S. Title

Feminine Bowlers Of Y-12
Finish Well In City Loop

Guard Department Moves To New
Centrally Located Headquarters

Y-12 Employees And Corporation
Active In Gates Opening Plans

Junior Choir
Lists Children
Of Y-12 Men

'Potato?--Tomato?--' 'Pomato?'
Y-12 Man Thought He Had Freak Cross
But Plant Just Plain Spud Right On

Women Netters
Of Y-12 Again
League Leaders

Four Y-12 Men Nominate
For Union Club Positions

Hi Balls Bubble To Women's Loop
Pin Title By Defeating Dodgers

Dickerson Gets
'Chain Letter'
From Employees

Proud Y-12 Parents Pay Tribute
To Youngsters At Dance Recital

Safety Flag
Is Reminder
Of Importance

Distinguished Service To Safety Award To Y-12 Will Be Presented November 30

Safety Council
Representative
To Give Citation

Fine Plant Safety Record Is Continued By Employees Of Y-12;
NSC Award Will Be Presented Here Today

Safety Shoes
Again Prove
Worth In Y-12

Another Y-12 Employee Wins Honorable Mention
In National Safety Council Limerick Contest

ACS Members Of Y-12 To Hear
Two Outstanding Addresses,
Vote For Sectional Officers

Big, Bad Black 'Brer Bar' (Whole Herd Of Them)
Invade Camp Of Y-12 Hikers In Smoky Mountains

Y-12 Dads Had Rooting Section
For Sons On Jefferson Eagle Team

Second Term MIT
Students Visit Y-12

Plant Records Department Facilities In Y-12
Impress AEC Visitors To Recent Library Meeting

Rippers Win Plant Loop Pennant, All Americans Cop Tourney;
Battling Bums Force Victors To Last Ditch In Both Finals

Camera Club Winners
For Month, Year Given

Bowlers Beats Reynolds For Y-12
Golf Title. Also Is Low Scorer

Y-12 AGAIN TOPS FIRST AID CONTEST

Fire Dept. Team No. 1 Grand Prize
Winner, No. 2 Team Second In Plant,
Chemical Research Women Are Third

Can You Top This?
Hamrick, Ivy Celebrate
Six Years On Job In Y-12
Without Single Absence

X-Ray Spectrographs Constructed
In Y-12 Shops Enhance Research